EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	37455	"707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 11:44
S6	37455	"707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 11:44
S7	2039	S6 and (partition$3 same (database$2 or data$1base$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 11:49
S8	857	S7 and @ad<"20000825"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 14:54
S9	66	S8 and (partition$3 with (dimension$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 11:44
S10	6	("5515531"|"5761652"|"5983215"|"6003036"|"6161105"|"6421612").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 11:49
S11	26	S9 and (partition$3 same (database$2 or data$1base$2) same table$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 12:25
S12	3	S6 and (partition$3 same (database$2 or data$1base$2) same table$1 same key$1 same dimension$3 and (stor$4 same diction$6))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 12:29

EAST Search History

S13	5	S6 and (partition$3 same (database$2 or data$1base$2) same table$1 same dimension$3 and (stor$4 same diction$6) and key$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 12:30
S14	37455	"707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 14:52
S15	5	S14 and (partition$3 same (database$2 or data$1base$2) same table$1 same dimension$3 and (stor$4 same diction$6) and key$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 14:53
S16	26	S14 and (partition$3 same (database$2 or data$1base$2) same table$1 same dimension$3 and (stor$4 same (diction$6 or defin$6) and key$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 14:53
S17	11	S16 and @ad<"20000825"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 19:39
S18	37455	"707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 19:34
S19	26	S18 and (partition$3 same (database$2 or data$1base$2) same table$1 same dimension$3 and (stor$4 same (diction$6 or defin$6) and key$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 19:43
S20	41	S18 and (partition$3 same (database$2 or data$1base$2) same table$1 same dimension$3 and (stor$4 same (diction$6 or defin$6 or configur$6)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 19:43

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S21	16	S20 and @ad<"20000825"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 19:44
S22	55	(partition$3 same (database$2 or data$1base$2) same table$1 same dimension$3 and (stor$4 same (diction$6 or defin$6 or configur$6)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 19:43
S23	21	S22 and @ad<"20000825"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/11 19:44
S24	27	("4555771" | "4788538" | "4794461" | "5257365" | "5261032" | "5359724" | "5414780" | "5446806" | "5647058" | "5701467").PN. OR ("6161105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 20:28
S25	2	"20020194157"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/11 20:40
S26	2	"6665684".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/11 20:40
S27	17	("5675791" | "5884320" | "5970495" | "5983215" | "6003036" | "6092062" | "6112198" | "6223182" | "6230151" | "6240428" | "6263331").PN. OR ("6665684"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/12 11:19
S30	2	"6161105".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 15:44

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1 Dynamic maintenance of multidimensional range data partitioning for parallel data processing

Junping Sun, William I. Grosky

November 1998 **Proceedings of the 1st ACM international workshop on Data warehousing and OLAP**

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms

2 Dynamic indexing for multidimensional non-ordered discrete data spaces using a data-partitioning approach

Gang Qian, Qiang Zhu, Qiang Xue, Sakti Pramanik

June 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(735.75 KB) Additional Information: full citation, abstract, references, index terms

Similarity searches in multidimensional Non-ordered Discrete Data Spaces (NDDS) are becoming increasingly important for application areas such as bioinformatics, biometrics, data mining and E-commerce. Efficient similarity searches require robust indexing techniques. Unfortunately, existing indexing methods developed for multidimensional (ordered) Continuous Data Spaces (CDS) such as the R-tree cannot be directly applied to an NDDS. This is because some essential geometric concepts/properties su ...

Keywords: Hamming distance, Non-ordered discrete data spaces, multidimensional index tree, similarity search

3 From discrepancy to declustering: Near-optimal multidimensional declustering strategies for range queries

Chung-Min Chen, Christine T. Cheng

January 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 1

Publisher: ACM Press

Full text available: pdf(225.33 KB) Additional Information: full citation, abstract, references, index terms

Declustering schemes allocate data blocks among multiple disks to enable parallel retrieval. Given a declustering scheme *D*, its *response time* with respect to a query *Q*, *rt* (*Q*), is defined to be the maximum number of data blocks of the query stored by the scheme in any one of the disks. If |*Q*| is the number of data blocks in *Q* and *M* is the number of disks, then *rt*(*Q*) is at least □|*Q*|/*M*□. One way to eval ...

Keywords: Declustering schemes, disk allocations, parallel database, range query

4 OLAP and statistical databases: similarities and differences

Arie Shoshani
May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press
Full text available: pdf(1.66 MB) Additional Information: full citation, references, citings, index terms

5 Generalized multidimensional data mapping and query processing

Rui Zhang, Panos Kalnis, Beng Chin Ooi, Kian-Lee Tan
September 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(689.08 KB) Additional Information: full citation, abstract, references, index terms

Multidimensional data points can be mapped to one-dimensional space to exploit single dimensional indexing structures such as the B+-tree. In this article we present a Generalized structure for data Mapping and query Processing (GiMP), which supports extensible mapping methods and query processing. GiMP can be easily customized to behave like many competent indexing mechanisms for multi-dimensional indexing, such as the UB-Tree, the Pyramid technique, the iMinMax, and the iDistan ...

Keywords: Indexing, data mapping, efficiency

6 SURVEY: Decoupling partitioning and grouping: Overcoming shortcomings of spatial indexing with bucketing

Hanan Samet
December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4
Publisher: ACM Press
Full text available: pdf(446.42 KB) Additional Information: full citation, abstract, references, index terms

The principle of decoupling the partitioning and grouping processes that form the basis of most spatial indexing methods that use tree directories of buckets is explored. The decoupling is designed to overcome the following drawbacks of traditional solutions:(1) multiple postings in disjoint space decomposition methods that lead to balanced trees such as the hB-tree where a node split in the event of node overflow may be such that one of the children of the node that was split becomes a child of ...

Keywords: BV-trees, PK-trees, R-trees, Spatial indexing, decoupling, object hierarchies, space decomposition

7 A space-partitioning-based indexing method for multidimensional non-ordered discrete data spaces

Gang Qian, Qiang Zhu, Qiang Xue, Sakti Pramanik
January 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(503.66 KB) Additional Information: full citation, abstract, references, index terms

There is an increasing demand for similarity searches in a multidimensional non-ordered discrete data space (NDDS) from application areas such as bioinformatics and data mining. The non-ordered and discrete nature of an NDDS raises new challenges for developing efficient indexing methods for similarity searches. In this article, we propose a new indexing technique, called the *NSP-tree*, to support efficient similarity searches in an NDDS. As we know, overlap causes a performance degradatio ...

Keywords: Hamming distance, Non-ordered discrete data spaces, multidimensional index tree, similarity search

8 Security-control methods for statistical databases: a comparative study